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PHOTOGRAPHIC INTERPRETATION REPORT

COMMUNICATIONS ANTENNAS,
ANADYR-UGOLNYY AREA,
USSR

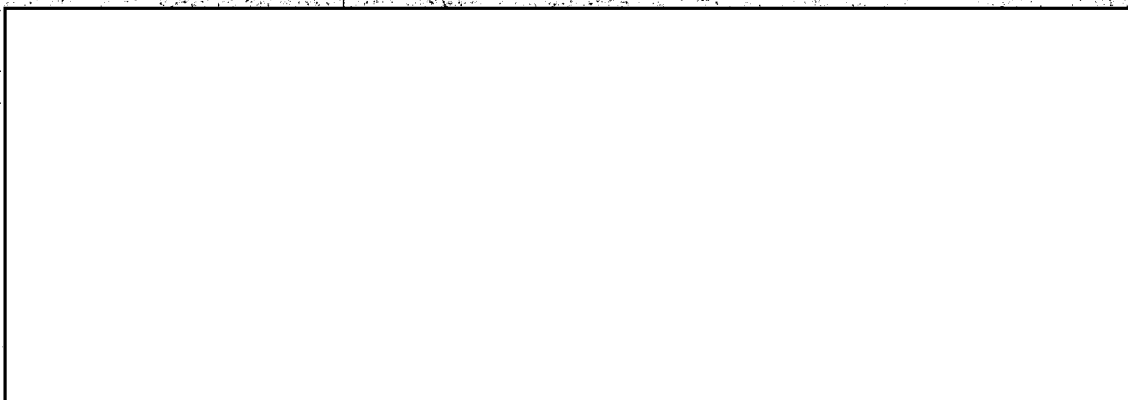
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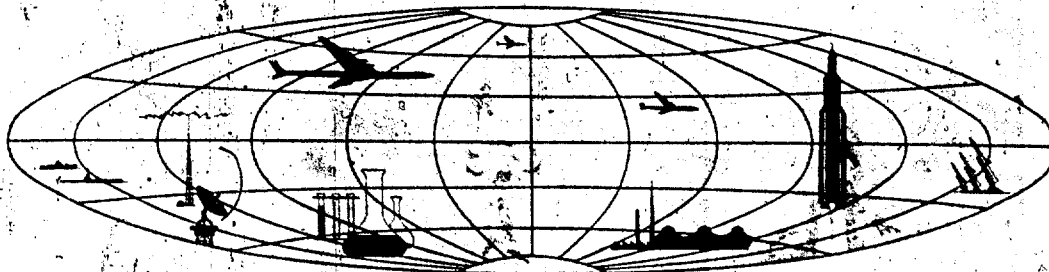
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COMMUNICATIONS ANTENNAS, ANADYR-UGOLNYY AREA, USSR

Prepared in response to an NSA requirement, this report furnishes in graphical form the types, azimuths, and probable correspondents of 21 receiving antennas located at two communications sites in the Anadyr-Ugolnyy area. The two sites, situated near the northeast tip of the USSR, are the Anadyr High-Frequency (HF) Communications Receiving Site (Figure 1) at 64-50N 177-48E, 7.5 nautical miles (nm) north-northeast of Anadyr Leninka Airfield, and the Ugolnyy HF Communications Receiving Site (Figure 2) at 64-46N 177-51E, one nm south of the Ugolnyy MRBM Launch Site and served only by an improved road from that site. All the requested information is conveyed in Figures 1, 2, and 3; for evaluation purposes, a brief comment is offered on the selection of antenna correspondents and on certain items of special interest among those correspondents.

The azimuths and correspondents given in this report, although believed to be actual and correct, should nevertheless be utilized with some caution because of inherent mensural difficulties in the camera system utilized, complicated by the fact that the antennas lie at the edge of the photographic print where distortion is greatest. Special techniques were devised to rectify these conditions, but there are no

standards against which to equate the results. However, it is felt to be significant as a confirmation of accuracy that, without exception, the great circle projection of all antenna azimuths intersected a highly likely correspondent (Figure 3).

In regard to these correspondents, this report indicates a communications link between the Anadyr-Ugolnyy sites and Khabarovsk, and also that the reciprocal azimuth of the various Khabarovsk-oriented antennas intersects the US base at Eielson, Alaska. In fact, one of the Anadyr antennas (Antenna 3, Figure 1) appears to have been modified to operate bi-directionally--that is, to receive from either Khabarovsk or Eielson. Other items of interest include the fact that the great circle projections which intersect Moscow also pass through Belushya Guba on Novaya Zemlya where substantial numbers of antennas have been noted in three separate areas; and that the great circle projection which intersects Irkutsk also passes through Yakutsk, both of which have extensive communications facilities including a new antenna farm 13 nm north of Yakutsk at 62-15N 129-49E where preliminary plotting indicates that some of the 51 rhombic antennas correspond with Anadyr.

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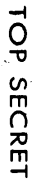
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FIGURE 3. PROBABLE CORRESPONDENTS OF ANADYR-UGOLNYY COMMUNICATIONS SITES.

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REFERENCES

MAPS OR CHARTS

SAC. US Air Target Chart, Series 200, Sheet 0075-21A, 2d ed, Jan 59, scale 1:200,000 (SECRET)

REQUIREMENT

NSA. P0432/R71-64

NPIC PROJECT

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